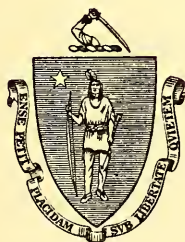


TWENTY-FOURTH ANNUAL REPORT  
OF  
THE COMMISSIONERS  
OF THE  
MASSACHUSETTS NAUTICAL  
SCHOOL

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JANUARY 1, 1916



BOSTON  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS  
32 DERNE STREET  
1916

APPROVED BY  
THE STATE BOARD OF PUBLICATION.

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COMMISSIONERS  
OF THE  
MASSACHUSETTS NAUTICAL SCHOOL  
2A PARK STREET, BOSTON

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JOHN F. MERRY, *Chairman*

REAR ADMIRAL, U. S. N. (RETIRED)

WILLIAM E. MCKAY

CLARENCE E. PERKINS

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WILLIAM H. DIMICK, *Secretary*



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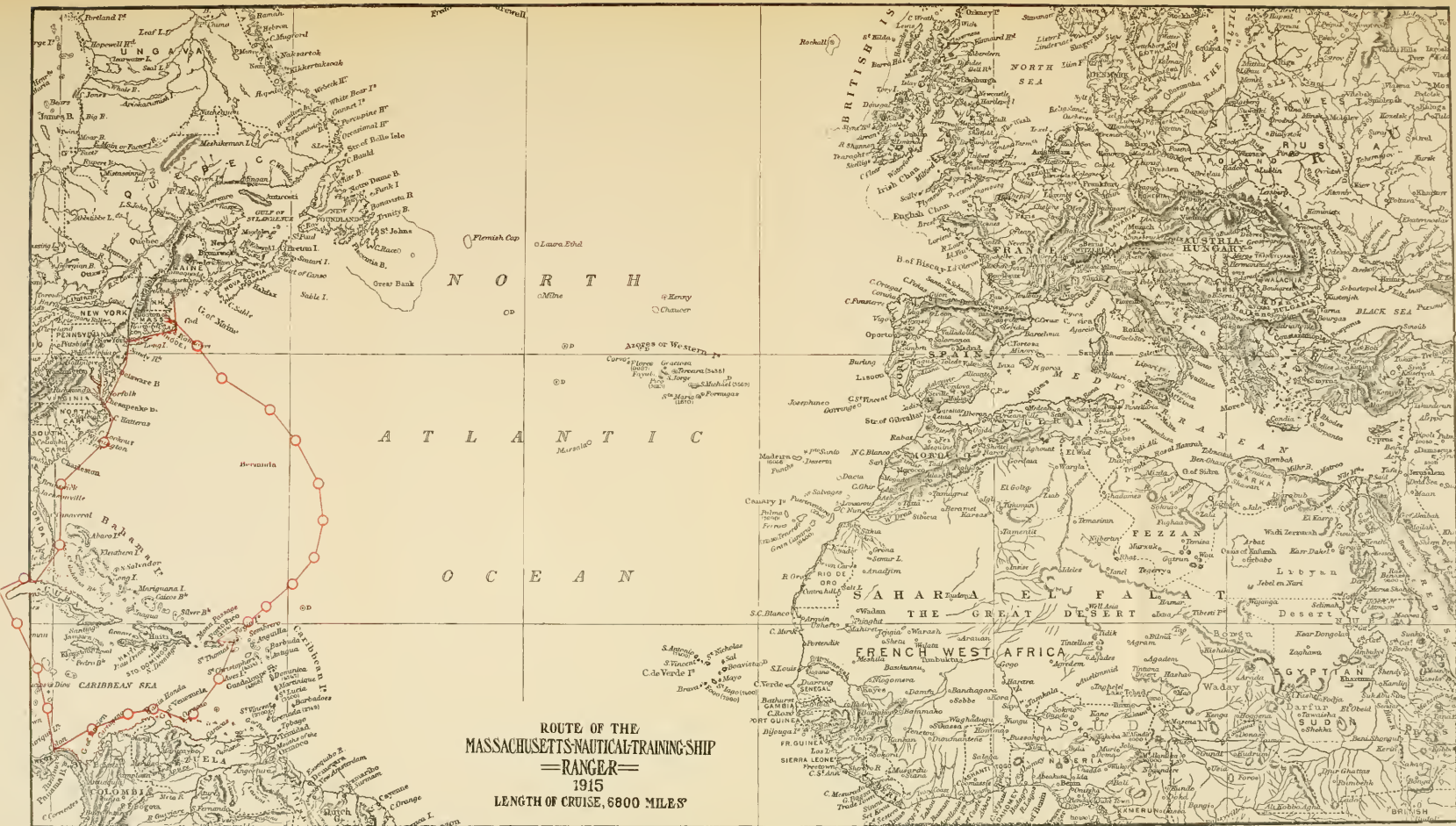
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# The Commonwealth of Massachusetts.

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## MASSACHUSETTS NAUTICAL SCHOOL.

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*To the Senate and House of Representatives of the Commonwealth of Massachusetts.*

The commissioners have the honor to submit their report of the operations of the school for the year 1915.

### THE WORK IN GENERAL.

The results of nautical education in Massachusetts continue to show a steady gain from year to year. Improvements have been made in the courses of study and in the equipment; the personnel of the officers and cadets is of a high standard; and there is a constantly increasing demand from marine superintendents and shipowners for graduates to fill positions as officers, both on deck and in the engine room. The demand for competent officers exceeds the supply.

The remarkable increase in American foreign tonnage, the unprecedented activity in American shipyards, and the development of the coast-to-coast trade through the Panama Canal has quickened public interest in maritime matters in general and in nautical education in particular, and it has been impossible for this school to accommodate all who desired to enter upon a seafaring career, — a condition that has existed for several years. During the year there have been 176 students enrolled in the school; they came from 77 cities and towns of the State, and their previous education was as follows: high school, 140; textile schools and private academies, 13; business colleges, 4; grammar school, 19.

The engines of the U. S. S. "Ranger" show a gain in efficiency of 10 per cent. as a result of repairs — including the

installation of a new crank-shaft — made in the engineering department. The engines, although of an old and obsolete type, are now in better condition than at any time since the ship was loaned to the State. A 10 kilowatt turbo-generator is being added to the engine room equipment, thus permitting practical instruction in the operation of a modern electrical generator.

The summer term commenced on May 6 with an enrollment of 104 cadets. After a preliminary cruise in Massachusetts Bay the annual inspection by His Excellency the Governor and Council was held on Thursday, May 20. At the conclusion of the various drills by the cadets, including sail drill, life-boat drill, fire drill and abandon ship drill, short addresses were made by Governor David I. Walsh, Hon. James A. Gallivan, Hon. Jacob Bitzer and Lieut. Howard G. Copeland, a graduate of this school.

The "Ranger" sailed from Boston for San Juan, P. R., on May 24. In planning the cruise the commissioners were forced, by the events in Europe, to make a radical departure from the usual custom of a cruise in the north Atlantic and the Mediterranean. This year, for the first time, a cruise was made to the West Indies and the Panama Canal, and this was followed by a cruise along the Atlantic coast. The cadets were afforded an opportunity to make a thorough inspection of the Panama Canal, and to visit several of the important commercial centers in the West Indies; this was of special value in view of our closer commercial relations with Porto Rico and Cuba. At San Juan many courtesies were extended to the ship's company by the Y. M. C. A. The cadets were granted the use of the Association's commodious building, and were generously entertained. The school is also greatly indebted to Mr. Arthur F. Estabrook of Boston for the cordial hospitality extended to the cadets at San Juan. At Colon all the cadets, in charge of an officer, made the passage through the Canal to the Pedro Miguel locks, as passengers on board the steamships "Charlton Hall" and "Purley." In addition, they were sent in parties in the ship's boats to the Gatun locks, four miles from the anchorage, where they had the operation of the locks and dams explained by Canal officials. A special car was provided to and

from Panama for those cadets who desired to visit that city. Every effort was made by the Canal officials to make the visit of the cadets a pleasant and profitable one, and particular thanks are due to Capt. Hugh Rodman, U. S. N., and Comdr. Douglas E. Dismukes, U. S. N. As a part of the course of instruction, each cadet was required to submit a written report on the Canal and its operation. The school is fortunate in having as superintendent a retired naval officer, as his rank and his acquaintance and experience enable him to obtain for the cadets valuable privileges in many of the ports of call during the summer cruise.

The cruise in home waters included an extended stay in Gardiner's Bay and the adjacent waters of Long Island Sound, and Narragansett Bay, — places admirably suited for the work of the school, and where the various practical exercises were carried on without interruption. Norfolk, Washington, Annapolis, New York and Jamestown were included as ports of call.

Hon. John Read, who had been a commissioner of the school since Dec. 7, 1899, died at his home in Cambridge on July 29, 1915. The following minute was adopted by the commissioners: —

The Commissioners of the Massachusetts Nautical School deeply regret the loss of a lovable friend and an efficient coworker. Of a genial, optimistic nature he was also a man of never-failing courtesy and kindness, whose sympathy went out in a practical manner to all who were in trouble or need. In public and private life he was always true to the highest ideals. During the many years he was a commissioner of the school he manifested at all times an active interest in the work, giving freely of his time and strength. His life was a splendid example of the public-spirited citizen who sacrifices for the Commonwealth with no thought of reward except that which comes from a consciousness of duty well done. His honorable record as an officer in the United States Navy during the civil war, his many years of service in the Legislature of the State, his long business experience and his calm and judicial temperament all contributed to make his service of rare value to the school.

On September 8 Mr. Clarence E. Perkins, a graduate of the school in the class of 1895, was appointed a commissioner of the school.

Comdr. Charles N. Atwater, U. S. N., who served as super-

intendent for four years, resigned on April 30; Commander Atwater's earnest and faithful work, combined with his tact and ability, ably served the school, and the commissioners accepted his resignation with great regret. Capt. P. W. Hourigan, U. S. N., was appointed to fill the vacancy. He is the author of a manual for the handling of vessels under sail, which was adopted as a textbook by the United States Naval Academy, where he served a tour of duty as instructor in seamanship; for three years he was commanding officer at the Naval Training Station at Newport, R. I., and a large part of his twenty-two years at sea was spent on board the sailing ships "Trenton," "Enterprise," "Jamestown," "Lancaster," "Alliance" and "Kearsarge."

An exhibit of the work of the school was included in the Massachusetts section at the Panama-Pacific International Exposition held at San Francisco; for this exhibit the school was awarded a gold medal.

#### THE SUMMER TERM.

The report of Capt. P. W. Hourigan, U. S. N., superintendent of the school, on the summer cruise is as follows:—

The various ports visited, with dates of departures and arrivals, are shown in the report of the navigator herewith.

The cruise, on the whole, I regard as having been very successful. The period spent in the Caribbean Sea, and especially in and in the vicinity of Colon, coming as it did in the midst of the rainy season and in midsummer, was enervating, and, except for the very great profit in the opportunity afforded to see the Panama Canal, not profitable in the general advantages offered. The failure in the cadets to show greater benefit physically from the cruise, as indicated in the report of the medical officer, was unquestionably due to this period. The latter part of the cruise in inland coast waters and coasting itself afforded an unusually good opportunity for instruction in piloting and in gaining familiarity with our own coasts, and was most valuable. In addition, it permitted a lengthy period in Gardiner's Bay and Narragansett Bay, both highly favorable for our work, and which more than compensated for the physical relaxation due to the experience of the early months of the cruise.

It is to be regretted that the opportunities for work at sea under sail alone were not greater, but the nature of the cruise operated against it. Every opportunity to carry sail was taken, however, and frequent exercises of sails and spars were held in port.



The cadets of the upper classes, both of the engineer and navigation divisions, were given every possible facility for practice in the more advanced features of their work. The opportunities presented for the navigation cadets were particularly good, and whenever possible toward the end of the cruise they were entrusted with the most responsible duties connected with the navigation of the ship. Likewise those of the junior classes were carefully instructed in the minor features.

The wireless squad did excellent work, standing a regular watch night and day at sea, and keeping in touch at all times through "listening in" with the various "high-power" stations on shore. All of these cadets successfully passed the regular government examination and received licenses.

Except as already referred to in connection with the effect of the tropical climate on the cadets, the general health was excellent.

The conduct of the cadet body has been most excellent; in foreign ports I was much gratified to receive evidence that the good conduct of the cadets on shore invariably attracted special attention and remark from the residents.

The telegram from the secretary of the Board announcing the death of Hon. John Read was received on July 30, and excited in all the deepest regret. All who came under the influence of Mr. Read's kindly spirit were deeply impressed with his personality, and deplore his loss. As a last tribute of respect to his memory, I directed that on Saturday, the day of the funeral, all but absolutely necessary work be suspended, and that the colors be displayed at half-mast.

Herewith are enclosed the reports from the heads of departments.

#### SEAMANSHIP.

During the summer the cadets of the third and fourth classes were given instruction in making bends, hitches, knotting and splicing; in the names of the parts of the ship, her tackle, gear and equipment, such as spars, sails, anchors, chains; in work aloft, bending, loosing, furling, reefing and making and taking in sail; in the marking and practical use of the lead and ship's log; in standing lookout watches; in signaling by two-arm hand semaphore; rowing and sailing in small boats; swimming; painting and practical work in preservation of ship; and many other routine duties.

The cadets of the first and second classes, in addition to the above, were given instruction in the duties and responsibilities of deck officers and petty officers, standing watches as officers of the deck, carrying out the ship's routine as quartermaster, both in port and at sea, and as boatswain's mate. They acted as coxswains of all ship's boats, obtaining valuable experience in handling boats under oars and sail. They were also given exercise at sail making, and required to act as leading men during the prosecution of work aloft, on deck and below. Each cadet was given individual practical instruction in steering by compass, marks

and ranges, and made acquainted with the orders given at the conn. They were given daily physical exercise and as much open-air work as practicable, including instruction in swimming, sailing and work on the rifle range. Cadets of the upper classes were required to become proficient in the Continental code of night signals. During the entire cruise the ship's work was accomplished by the cadets, and everything was done to familiarize them with the forms, nomenclature and customs of the sea.

#### NAVIGATION.

While at sea the cadets of the first and second classes were required to pass in noon position by observation and dead reckoning, course and distance made good since preceding noon, set and drift of current, and the deviation of the compass by observation. Sights were taken and worked independently. The progress in this part of the work was satisfactory, considering the time at sea out of sight of land.

Chronometer comparisons, general care and winding of chronometers were emphasized. The radio was at all times open to cadets for receiving time signals. We were never out of range of either the Arlington or Key West radio stations.

During the preliminary cruise, and again in Gardiner's Bay, the ship was swung for deviations, giving the cadets an opportunity to observe and participate in this important problem of modern navigation.

While coasting the various problems of piloting were put into practical operation, and opportunity was given each cadet to perfect himself in taking and plotting cross bearings, bow and beam bearings, use of charts, sailing directions, tide tables, etc.

The sounding machine and coasting lead were used frequently for practice, as well as for actual use.

The submarine signal apparatus was put to its first practical test since its installation, in making Pollock Rip Shue Light vessel in a fog on September 15.

The cadets of the third and fourth classes had ample opportunity to observe the various instruments used in navigation and to become acquainted with their use, which will be of great value to them in their theoretical work during the winter term.

#### ITINERARY OF THE CRUISE OF 1915.

May 8, Boston to Provincetown; May 15, Provincetown to Gloucester; May 18, Gloucester to Boston; May 20, Governor's inspection; May 24, sailed on cruise.

PORTS.	Distance (Miles).	Left.	Arrived.	Days at Sea.	Days in Port.
Boston-San Juan, . . . . .	1,917	May 24	June 4	11	—
San Juan-St. Thomas, . . . . .	75	June 10	June 10	1	6
St. Thomas-Curacao, . . . . .	452	June 16	June 18	2	6
Curacao-Colon, . . . . .	709	June 22	June 26	4	4
Colon-Havana, . . . . .	1,000	July 6	July 11	5	10
Havana-Norfolk, . . . . .	990	July 16	July 20	4	5
Norfolk-Newport News, . . . . .	12	July 23	July 23	—	3
Newport News-Old Point Comfort, . . . . .	8	July 24	July 24	—	1
Old Point Comfort-Washington, . . . . .	160	July 26	July 27	1	2
Washington-Annapolis, . . . . .	160	Aug. 3	Aug. 4	1	7
Annapolis-New York, . . . . .	387	Aug. 5	Aug. 7	2	1
New York-Gardiner's Bay, . . . . .	105	Aug. 14	Aug. 14	1	7
Gardiner's Bay-New London, . . . . .	20	Aug. 20	Aug. 20	—	6
New London and vicinity, . . . . .	105	Aug. 24	Aug. 26	1	4
New London-Jamestown, . . . . .	45	Aug. 27	Aug. 27	—	1
Jamestown-Boothbay, . . . . .	220	Sept. 4	Sept. 6	1	8
Boothbay-Portland, . . . . .	33	Sept. 11	Sept. 11	—	5
Portland-Nantucket, . . . . .	150	Sept. 14	Sept. 15	1	3
Nantucket-Edgartown, . . . . .	23	Sept. 18	Sept. 18	—	3
Edgartown-Vineyard Haven, . . . . .	8	Sept. 21	Sept. 21	—	3
Vineyard Haven-Jamestown, . . . . .	45	Sept. 23	Sept. 23	—	2
Jamestown-Gloucester, . . . . .	151	Sept. 25	Sept. 26	1	2
Gloucester-Boston, . . . . .	25	Sept. 30	Sept. 30	—	4
	6,800			36	93

## MARINE ENGINEERING.

Senior cadets were instructed in the following: firing, oiling, operation of main and auxiliary machinery, overhaul and repairs to same, in port and at sea; finding dead center of engines, and valve setting for main and variable expansion valves; pipe systems; log writing; coal consumption, and keeping check on coal as received on board; inspection, care and preservation of boilers, testing water in same for salt and acidity; taking indicator diagrams and reading same for defective valve setting; finding mean pressure from diagrams by ordinates and planimeter; working out horse power of engines by simple rules and logarithms; care and caution necessary in using steam and in starting, operating and stopping engines; care and preservation of hull and fittings.

Junior cadets were instructed in coal passing, firing, names and uses of firing tools and of boiler fittings.

COAL REPORT.										Tons.
Coal on hand at beginning and received during cruise,	.	.	.	.	.	.	.	.	.	677.6
Expended,	.	.	.	.	.	.	.	.	.	633.3
										<hr/>
Remaining on hand,	.	.	.	.	.	.	.	.	.	44.3
Expended as follows: —										
Galley,	.	.	.	.	.	.	.	.	.	17.0
Distilling,	.	.	.	.	.	.	.	.	.	49.9
Dynamo and other auxiliaries,	.	.	.	.	.	.	.	.	.	195.4
Moving ship,	.	.	.	.	.	.	.	.	.	371.0
										<hr/>
Totals,	.	.	.	.	.	.	.	.	.	633.3

### ELECTRICAL WORK.

First and second classes nautical cadets were given instruction and practice in the use of the Continental Morse Code for night signaling, each cadet being required to know the code and be able to send and receive.

First and second classes engineer cadets were given instruction and practice in the repairs and care of the ship's electrical plant. Under the supervision of the electrician each cadet was assigned full charge of the ship's electrical apparatus, being required to tend the starting, shifting load, and stopping dynamos, and to make any necessary repairs to dynamos, motors, lights, call bell and batteries.

Cadets of the first-year classes, who were selected for radio instruction during the winter term, passed the government examination and received radio licenses. They were assigned regular radio watch at sea, and assisted in the thorough overhauling and rearranging of the radio set; also in taking down and repairing the radio antenna at sea.

### MEDICAL DEPARTMENT.

All cadets who had not been successfully vaccinated last year were vaccinated against smallpox, and in no instance was there any untoward result. The antityphoid inoculation is optional, and only nineteen new cadets availed themselves of this opportunity. Because of the great efficiency of this, as shown by various army and navy reports, it seems advisable for us to adopt this as a routine measure.

The result of the heat experienced in the tropics is seen in the measurements of the cadets. Heretofore the gain has been marked, but the records of this summer show an average gain in weight of less than a pound, whereas the average chest expansion shows a loss.

### THE WINTER TERM.

The following is the study schedule for the winter term of 1915-16: —



*Winter Schedule.*

		First Class, Seamanship.	Second Class, Seamanship.	First Class, Engineers.	Second Class, Engineers.	Third Class, First Section.	Third Class, Second Section.	Fourth Class, First Section.	Fourth Class, Second Section.
Monday	{ 9-10, 10-11, 11-12, 12-12.40, }	Mathematics. Study. Navigation, Study.	Study. Mathematics. Study. Navigation.	Steam. Study. Mathematics. Study.	Study. Steam. Study. Mathematics.	Navigation. Study. Seamanship. Study.	Study. Navigation. Study. Seamanship.	Seamanship. Study. Steam. English.	Study. Seamanship. English. Steam.
Tuesday	{ 9-10, 10-11, 11-12, 12-12.40, }	Navigation. Study. English. Study.	Study. Navigation. Study. English.	Steam. Study. Electricity. Study.	Study. Steam. Study. Electricity.	Electricity. Study. Steam. Study.	Study. Electricity. Study. Steam.	Mathematics. Study. Navigation. Study.	Study. Mathematics. Study. Navigation.
Wednesday	{ 9-10, 10-11, 11-12, 12-12.40, }	Seamanship. Study. Navigation. Study.	Study. Seamanship. Study. Navigation.	English. Study. Electricity. Study.	Study. English. Study. Electricity.	Navigation. Study. Mathematics. Study.	Study. Navigation. Study. Mathematics.	Steam. Study. English. Study.	Study. Steam. Study. English.
Thursday	{ 9-10, 10-11, 11-12, 12-12.40, }	Navigation Study. Mathematics. Study.	Study. Navigation. Study. Mathematics.	Steam. Study. English. Study.	Study. Steam. Study. English.	Seamanship. English. Steam. Study.	English. Seamanship. Study. Steam.	Mathematics. Study. Navigation. Study.	Study. Mathematics. Study. Navigation.
Friday	{ 9-10, 10-11, 11-12, 12-12.40, }	Seamanship. Study. English. Study.	Study. Seamanship. Study. English.	Mathematics. Study. Steam. Study.	Study. Mathematics. Study. Steam.	English. Study. Mathematics. Study.	Study. English. Study. Mathematics.	Electricity. Study. Seamanship. Study.	Study. Electricity. Study. Seamanship.

The above table indicates in only a general way the actual studies pursued by each class. Cadets are divided for instruction into sections, with one set of sections made up of cadets of the first and second classes combined, and the other set of the third and fourth classes combined.

Persons interested in the work of the school are cordially invited to visit the "Ranger" on any day except Saturday and Sunday, when the cadets are absent on home leave.

The following are the officers and instructors now connected with the school:—

Superintendent and commanding officer, Capt. P. W. Hourigan, U. S. N.  
Executive officer, Lieut. Alfred H. Miles, U. S. N.  
Navigator, A. Russell Cushing (graduate M. N. S.).  
Watch officer, Chief Boatswain Albert Seeckts, U. S. N.  
Watch officer, Albert L. Ware (graduate M. N. S.).  
Chief engineer, Machinist John O'Neill, U. S. N.  
Medical officer, Gardner N. Cobb, M.D.  
Paymaster and captain's clerk, Theodore C. Howe, U. S. N.  
Electrician, Charles A. Scott.

#### PERSONNEL.

April 26, 1915, Capt. P. W. Hourigan, U. S. N., retired, appointed superintendent.

April 30, 1915, Comdr. Charles N. Atwater, U. S. N., retired, superintendent, resigned.

July 29, 1915, Commissioner John Read of Cambridge died.

Sept. 8, 1915, Clarence E. Perkins of Winthrop appointed commissioner.

#### REGISTER OF GRADUATES.

The following list includes some of the graduates who are following the sea; many names have been omitted on account of lack of space, and there are others of whom the commissioners have no record:—

Graduated.	NAME.	Residence.	Position.	Vessel.
1902	Osborne E. McKay, .	Provincetown, .	Pilot, . . .	Panama Canal.
1902	Arthur T. Luther, . .	Swansea, . .	Pilot, . . .	Panama Canal.
1894	Henry G. Carpenter, <sup>1</sup> .	Roxbury, . .	Captain, . . .	"Frances Alice."
1894	James E. Reardon, <sup>1</sup> .	Roxbury, . .	Captain, . . .	"Santurce" (1,836 tons).
1895	George E. Eaton, . .	Wakefield, . .	Captain, . . .	"Anemone."
1896	Henry R. Bodge, . .	Wollaston, . .	Captain, . . .	"Northland" (3,282 tons).
1896	Wm. N. P. Baker, . .	Dorchester, . .	Captain, . . .	"Corozal" (3,063 tons).
1896	George R. Lauriat, . .	Medford, . .	Captain, . . .	"Pickering."
1897	Fred'k A. Sparks, . .	Provincetown, .	Captain, . . .	"Machigonne."
1897	Willis Howes, . . .	South Yarmouth, .	Captain, . . .	"El Agulea."
1897	Emery Rice, . . .	Brighton, . .	Captain, . . .	"Mongolia" (13,658 tons).
1898	Louis E. Congdon, . .	Boston, . .	Captain, . . .	"Colorado."
1898	Carl E. A. Anderson, .	Roslindale, . .	Captain, . . .	"Honolulu" (7,059 tons).
1899	Richard T. Blackford, .	Marblehead, .	Captain, . . .	"Jessie Costa."
1900	William B. Knight, . .	Hull, . . .	Captain, . . .	"Pavlof."
1900	James S. Howes, . . .	Woods Hole, .	Captain, . . .	"Persian."
1901	Theodore H. Bicknell, .	Melrose, . .	Captain, . . .	"Herman Frasch" (3,803 tons).
1902	Herman T. Parker, . .	Rockport, . .	Captain, . . .	"Lexington" (2,092 tons).
1902	Fred C. Seibert, . . .	Greenfield, . .	Captain, . . .	"Solace" (5,700 tons).
1903	Nicholas J. Kane, . .	Whitman, . .	Captain, . . .	"Panaman" (6,649 tons).
1904	John F. Williamson, .	Brockton, . .	Captain, . . .	"Myrtle."
1908	Eugene P. Shevlin, . .	East Boston, .	Captain, . . .	"Gardenia."
1908	Edw. S. Ells, Jr., . .	Cambridge, . .	Captain, . . .	"Vulcan" (11,200 tons).
1895	Walter J. Healey, . .	Worcester, . .	First officer, .	"Zulia."
1895	Geo. L. P. Covell, . .	Roxbury, . .	First officer, .	Inter-Island Steamship Company.
1897	Chas. W. Clift, . . .	Whitman, . .	First officer, .	"Gen. E. O. C. Ord."
1898	Eldon G. Freeman, . .	Whitman, . .	First officer, .	"Sequoia."
1899	Walter S. Lynch, . .	Chelsea, . .	First officer, .	"Kroonland."
1899	Edward G. Smith, . .	Boston, . .	First officer, .	"Minnesotan."
1900	Alfred M. Cummings, .	Worcester, . .	First officer, .	"Edith" (5,100 tons).
1900	E. Newton Parker, . .	Greenfield, . .	First officer, .	"Nero."
1901	Robert W. Tucker, . .	Kendal Green, .	First officer, .	"Kansan."
1901	Chas. D. Harrington, .	Cambridge, . .	First officer, .	"Mascotte."
1902	William I. O'Reilly, . .	South Boston, .	First officer, .	"Queen."
1902	Arthur Jensen, . . .	Provincetown, .	First officer, .	"Nanshan."
1902	Edwin J. Madden, . .	Everett, . .	First officer, .	"St. Louis."
1903	Harry M. Bostwick, . .	Northbridge, .	First officer, .	"Ajax."
1903	Harold C. Rideout, . .	Concord, . .	First officer, .	"Comus."

<sup>1</sup> Transferred.

Graduated.	NAME.	Residence.	Position.	Vessel.
1903	Robert B. Powers, . .	Brockton, . .	First officer, .	"Nereus."
1904	Edward C. Roberts, . .	North Beverly, .	First officer, .	"Cristobal."
1905	Fred'k S. Walker, . .	Dorchester, . .	First officer, .	"Malden."
1905	James A. Crocker, . .	Nahant, . .	First officer, .	"Tuscan."
1905	Harry W. Maynard, . .	Winthrop, . .	First officer, .	"Sumac."
1906	William H. Lee, . .	Roxbury, . .	First officer, .	"Kanawha."
1907	Harry L. Chick, . .	Beverly, . .	First officer, .	"Justin."
1909	Carroll E. Higgins, . .	Somerville, . .	First officer, .	American-Hawaiian Line.
1910	Chester R. Morris, . .	Springfield, . .	First officer, .	"Myrtle."
1912	Robert M. Gray, . .	Melrose, . .	First officer, .	"Peter H. Crowell."
1894	Albert L. Warner, <sup>1</sup> . .	Wollaston, . .	Second officer, .	"Geo. E. Hawley."
1897	Edwin F. Darling, . .	West Dennis, . .	Second officer, .	"Dorothy Brad- ford."
1898	Charles H. Kilmer, . .	Somerville, . .	Second officer, .	"Leonidas."
1900	Joseph E. Gately, . .	Marlborough, . .	Second officer, .	"Princess Ann."
1901	John J. Coholan, . .	South Boston, . .	Second officer, .	"Malden."
1902	Wm. M. Chisholm, . .	North Attle- borough.	Second officer, .	-
1903	Mark Woodbury, . .	Townsend, . .	Second officer, .	"Iowan."
1903	Benj. Connell, . .	Peabody, . .	Second officer, .	"Philadelphia."
1904	Leslie F. Holmes, . .	East Whitman, . .	Second officer, .	"Antilles."
1906	Geo. C. Bosson, . .	Reading, . .	Second officer, .	"Boswell."
1907	Walter L. Smith, . .	Ashburnham, . .	Second officer, .	"Oregonian."
1907	William M. Gifford, . .	Woods Hole, . .	Second officer, .	"Nereus."
1908	Ernest F. Robinson, . .	East Boston, . .	Second officer, .	"Cyclops."
1909	William A. Sillars, . .	Danvers, . .	Second officer, .	"Malden."
1909	Robert S. Sparrow, . .	Eastham, . .	Second officer, .	-
1909	Harold C. Cooper, . .	Worcester, . .	Second officer, .	Standard Oil Com- pany.
1910	Franklin K. Tyler, . .	Beachmont, . .	Second officer, .	"Cushing."
1911	Frazier L. Sears, . .	East Dennis, . .	Second officer, .	Standard Oil Com- pany.
1911	Eugene W. Miller, . .	East Saugus, . .	Second officer, .	"Minnesota."
1911	William M. Gorham, . .	Winthrop, . .	Second officer, .	"Muskogee."
1911	Chas. F. Fornason, . .	Gloucester, . .	Second officer, .	"Ultonia" (10,000 tons).
1911	Harold S. Dexter, . .	Mattapoisett, . .	Second officer, .	"Caesar."
1912	Ellenwood Folger, . .	Siasconset, . .	Second officer, .	"Santiago."
1912	Ralph E. Merithew, . .	Haverhill, . .	Second officer, .	"Massapequa."
1912	John W. Thompson, . .	Marion, . .	Second officer, .	"Anemone."
1913	Arthur G. Burt, . .	Whitman, . .	Second officer, .	"Geo. E. Warren."
1913	James A. MacCabe, . .	Osterville, . .	Second officer, .	-
1904	Andrew J. Iverson, . .	Beverly, . .	Third officer, .	"San Juan."
1906	William A. Manchester, . .	Campello, . .	Third officer, .	"Nanshan."

<sup>1</sup> Transferred.

Graduated.	NAME.	Residence.	Position.	Vessel.
1909	Eric E. Winquist, . . .	Jamaica Plain,	Third officer, .	"Kanawha."
1911	Henry O. K. Hanson, . .	Neponset, .	Third officer, .	-
1911	Fred'k J. Shaw, . . .	Cambridge, .	Third officer, .	"Cyclops."
1911	Raymond C. Vose, . . .	Cambridge, .	Third officer, .	"Nereus."
1911	Chas. C. Plummer, . . .	Cambridge, .	Third officer, .	"Orion."
1911	Wesley F. Besse, . . .	South Hanson,	Third officer, .	"Robert Dollar."
1912	Wm. H. O'Donoghue, . .	Roxbury, .	Third officer, .	"Arethusa."
1912	Clarence L. Howard, . .	Auburndale, .	Third officer, .	-
1912	Alex. G. Perkins, . . .	Newburyport, .	Third officer, .	"Achilles."
1912	Edw. A. Moore, Jr., . .	Forest Hills, .	Third officer, .	"Solace."
1912	Jos. M. Daniel, . . .	Osterville, .	Third officer, .	"Kentuckian."
1912	Harold Ertel, . . .	Longmeadow, .	Third officer, .	"Carolyn."
1913	Waldon A. McIntire, . .	Gloucester, .	Third officer, .	Clyde Line.
1913	Philip H. Waldron, . . .	Westborough, .	Third officer, .	"L. V. Stoddard."
1913	Wilfred Senior, . . .	Boston, . .	Third officer, .	"Nebraskan."
1913	Borden A. Tuell, . . .	New Bedford, .	Third officer, .	"City of Atlanta."
1913	Nelson T. Nutter, . . .	Newburyport, .	Third officer, .	"Vulcan."
1913	Everett O. Swinson, . .	East Gloucester,	Third officer, .	"Alliance."
1907	Elmer B. Small, . . .	North Truro, .	Fourth officer, .	"Sierra" (6,000 tons).
1902	A. Russell Cushing, . .	Dorchester, .	Navigating officer,	"Ranger."
1911	Albert L. Ware, . . .	Cambridge, .	Watch officer, .	"Ranger."
1898	Joseph E. Sheedy, . . .	Reading, . .	General superintendent,	Inter-Island Navigation Company.
1906	Howard G. Copeland, . .	Malden, . .	Superintendent, .	Massachusetts Naval Cadet School.
1906	Ernest J. Flanigan, . .	Wakefield, .	Instructor, . .	Massachusetts Naval Cadet School.
1912	Norman E. Merrill, . .	Walpole, . .	Instructor, . .	Massachusetts Naval Cadet School.
1898	George F. Waite, . . .	Winthrop, .	Chief inspector of steamboats.	Providence, R. I.
1896	Alvin W. Haynes, . . .	Somerville, .	Assistant inspector of hulls.	Boston, Mass.
1899	Frank B. Davis, . . .	Dorchester, .	Assistant inspector of boilers.	New Orleans, La.
1898	Clarence E. Wood, . . .	Fall River, .	Lieutenant, .	U. S. Navy.
1907	Thomas Baxter, . . .	South Dennis, .	Lieutenant, .	U. S. Navy.
1895	Philip W. Lauriat, . . .	Medford, . .	1st Lieut., U. S. C. G. S.	"Algonquin."
1899	James A. Alger, . . .	Reading, . .	1st Lieut., U. S. C. G. S.	"McCulloch."
1900	John F. McGourty, . . .	Worcester, .	2d Lieut., U. S. C. G. S.	"Miami."
1906	William F. Towle, . . .	Boston, . .	2d Lieut., U. S. C. G. S.	Coast Guard Academy.
1896	Charles S. Young, . . .	Boston, . .	Nautical expert, .	Navy Department.
1897	Fred'k W. Jones, . . .	Winchester, .	Nautical expert, .	Navy Department.
1900	Gershon Bradford, . . .	Duxbury, .	Nautical expert, .	Navy Department.
1903	Leander A. Clapp, . . .	Brockton, .	1st Lieutenant, .	U. S. Marine Corps.
1906	Clarence E. Nutting, . .	Cambridge, .	1st Lieutenant, .	U. S. Marine Corps.



Graduated.	NAME.	Residence.	Position.	Vessel.
1894	Horace W. Folger, <sup>1</sup>	Wilmington,	Pilot,	Boston Pilot Boat Service.
1900	I. Clarence Bailey,	Kingston,	Pilot,	Boston Pilot Boat Service.
1912	Herbert A. Burns,	New Bedford,	Cadet officer,	"Sunflower."
1895	Geo. A. Faulkner,	Roxbury,	Keeper,	Cape Cod Light.
1896	Jas. H. B. Meehan,	Lowell,	Chief engineer,	"Proteus" (19,000 tons).
1896	Christopher W. Sorenson,	Somerville,	Chief engineer,	"Nassau."
1897	Augustus T. Holmes,	Ipswich,	Chief engineer,	"J. M. Guffey" (2,520 tons).
1898	Charles E. Rowe,	Lynn,	Chief engineer,	"A j a x" (9,250 tons).
1898	John C. Ganser,	Jamaica Plain,	Chief engineer,	"Caribbean" (2,800 tons).
1898	Everett S. Ransom,	Mattapoisett,	Chief engineer,	"Parthenia."
1898	William E. Ballsdom,	Neponset,	Chief engineer,	"Herman Winter."
1898	Wilbur S. Lamont,	Leominster,	Chief engineer,	Panama Canal.
1899	Forrest D. Clark,	Dorchester,	Chief engineer,	"Harvard" (3,737 tons).
1900	Hollis M. Cornwall,	Melrose,	Chief engineer,	"Persian" (2,677 tons).
1900	William Glover,	Wilmington,	Chief engineer,	"J. H. Devereaux" (1,618 tons).
1900	Norris R. Sibley,	Worcester,	Chief engineer,	"Col. Wikoff."
1900	Charles E. Lowe,	Roxbury,	Chief engineer,	"Mackinaw" (2,578 tons).
1900	Elmer P. Butterworth,	Foxborough,	Chief engineer,	"Gulflight."
1901	Robert A. Patterson,	Brighton,	Chief engineer,	"Solace" (5,700 tons).
1901	David W. Warren,	Everett,	Chief engineer,	"Everett" (3,238 tons).
1901	Eugene I. K. Murphy,	Worcester,	Chief engineer,	Government vessel, Panama Canal.
1902	Daniel F. Butler,	North Easton,	Chief engineer,	"Gloria."
1904	Cecil L. McIntyre,	Upton,	Chief engineer,	-
1905	Walter C. Lockhart,	Wakefield,	Chief engineer,	-
1895	Michael D. Sullivan,	Boston,	First engineer,	"Enterprise."
1896	Forrest H. McIntyre,	Gloucester,	First engineer,	"Daniel Millard."
1898	Frank P. Killion,	Malden,	First engineer,	"Kanai."
1900	J. J. Donohue,	Cambridge,	First engineer,	"Oregon."
1900	James F. Rawdon,	Worcester,	First engineer,	"Tuscan."
1901	Frank A. Browne,	Westborough,	First engineer,	Isthmian Canal Commission.
1903	Edward A. Mercer,	Cambridge,	First engineer,	"Mars."
1903	James S. McGarry,	Shrewsbury,	First engineer,	"Creole."
1904	Charles W. Bumpus,	Wakefield,	First engineer,	"Cape Ann."
1904	Edw. J. Chadbourne,	Reading,	First engineer,	"Henry F. Dimock."
1905	Fred G. Carlton,	Maynard,	First engineer,	"Onondaga."
1905	Charles F. Tarr,	Taunton,	First engineer,	"Cyclops."
1906	Augustus C. Caldwell,	Dorchester,	First engineer,	"Ajax."
1906	Bradford N. A. Gladding,	New Bedford,	First engineer,	"Brutus."
1907	Fred'k M. Coughlin,	North Dartmouth,	First engineer,	Army tug, Newport.

<sup>1</sup> Transferred.

Graduated.	NAME.	Residence.	Position.	Vessel.
1907	George H. Stickney, .	Worcester, .	First engineer, .	"Nanshan."
1907	Archie E. Bragg, . .	New Bedford, .	First engineer, .	"Saturn."
1908	Thos. B. Pellett, . .	Worcester, .	First engineer, .	"Orion."
1895	Fred'k H. Stackpole, .	Hyde Park, .	Second engineer, .	"City of Brockton."
1896	John O. Sargent, . .	Worcester, .	Second engineer, .	"St. Louis."
1897	Perley W. Kimpton, .	Somerville, .	Second engineer, .	"Shawmut."
1898	Arthur P. Stevens, . .	Nantucket, .	Second engineer, .	"Ponce."
1900	Ressie E. Bowser, . .	North Abington. ton.	Second engineer, .	"Nero."
1900	Earle P. Marshall, . .	North Easton, .	Second engineer, .	"Uruguay."
1901	Sydney A. Maglathlin, .	West Bridge- water.	Second engineer, .	"Arethusa."
1902	Augustus W. Hart, . .	North Truro, .	Second engineer, .	"Chippewa."
1902	Ernest L. Saunders, .	Brockton, .	Second engineer, .	"Justin."
1905	Thomas W. Chisholm, .	North Billerica,	Second engineer, .	-
1906	Victor M. Foster, . .	East Boston, .	Second engineer, .	"Newton."
1906	Arthur A. Burbank, .	Carver, . .	Second engineer, .	"Hector."
1907	Philip B. Marcy, . .	Boston, . .	Second engineer, .	"Oklahoma."
1907	Jos. R. Wier, . . .	Saundersville, .	Second engineer, .	"Nero."
1909	Everett B. Ward, . .	Lynn, . .	Second engineer,	"Saturn."
1909	William E. Caddigan, .	Dorchester, .	Second engineer, .	"Lewis K. Thur- low."
1909	Samuel J. Miller, . .	Fall River, .	Second engineer, .	"Brutus,"
1909	Ervin J. Kelley, . .	Medford, . .	Second engineer, .	"Anemone."
1910	Leslie S. Badger, . .	Dorchester, .	Second engineer, .	"Seaconnet."
1910	Geo. W. Sibley, . .	Worcester, .	Second engineer, .	"Grecian."
1911	Robt. F. Phinney, . .	Roslindale, .	Second engineer, .	"Cushing."
1911	Samuel D. White, . .	Hyannisport, .	Second engineer, .	"Penobscot."
1912	Louis H. Racicot, . .	Lowell, . .	Second engineer, .	"Jason."
1912	Wm. A. Hamilton, . .	Cliftondale, .	Second engineer, .	"Cyclops."
1914	Leslie T. Severence, .	Cambridge, .	Second assistant engineer.	-
1903	Rudolph Komenda, .	Somerville, .	Third engineer, .	"Hannibal."
1908	Arthur E. Whiton, . .	Wakefield, .	Third engineer, .	"Justin."
1908	George H. Cameron, .	Wakefield, .	Third engineer, .	"Orion."
1909	Fritz T. Kebler, . .	Rochdale, .	Third engineer, .	"Onondaga."
1910	Ernest B. Wyatt, . .	Wakefield, .	Third engineer, .	"Vulcan."
1911	Geo. L. Lockhart, . .	Wakefield, .	Third engineer, .	"Jason."
1912	Albert W. Culley, . .	Fitchburg, .	Third engineer, .	"Vulcan."
1912	Walter L. Brewster, .	Somerville, .	Third engineer, .	"F. J. Lisman."
1912	Richard K. O'Connell, .	North Easton, .	Third engineer, .	"Everett."
1913	Earle A. Lewis, . .	Woods Hole, .	Third engineer, .	-
1913	Russell A. McLay, . .	Lawrence, .	Third engineer, .	-

Graduated.	NAME.	Residence.	Position.	Vessel.
1912	George R. Davison,	Springfield,	Third assistant engineer.	"Advance."
1897	Lorenzo C. Farwell,	Dorchester,	1st Lieut., Eng., U. S. C. G. S.	"Gresham."
1896	Webb C. Maglathlin,	Bridgewater,	2d Lieut., Eng., U. S. C. G. S.	"Arcata."
1897	Albert F. Patterson,	Townsend,	2d Lieut., Eng., U. S. C. G. S.	"Alert."
1898	John T. Carr,	Malden,	2d Lieut., Eng., U. S. C. G. S.	"Penrose."
1906	Henry C. Roach,	New Bedford,	2d Lieut., Eng., U. S. C. G. S.	"Yamacraw."
1907	Paul R. Smith,	Concord,	3d Lieut., Eng., U. S. C. G. S.	"Algonquin."
1895	Charles H. Lincoln,	Gloucester,	Marine surveyor,	Cleveland, Ohio.
1898	Herbert E. Fish,	Mattapoisett,	Chief machinist,	U. S. Navy.
1896	H. E. Kershaw,	Lawrence,	Machinist,	U. S. Navy.
1903	C. Allan Holbrook,	Marlborough,	Machinist,	"Oregon."
1900	Hugh H. McDonagh,	Worcester,	Electrician,	"Cæsar."
1902	John F. Murphy,	Worcester,	Electrician,	"Viper."
1903	Fred S. Garland,	Randolph,	Electrician,	"Alabama."
1903	Guy H. Hudson,	Somerville,	Electrician,	"Alabama."
1904	Charles A. Hill,	Melrose,	Electrician,	"Bay State."
1904	C. George Dyson,	Billerica,	Electrician,	"Delaware."
1905	Lawrence G. Kelley,	Taunton,	Electrician,	"Illinois."
1905	John F. Kinnaly,	South Boston,	Electrician,	"Vermont."
1906	Carroll L. Morgan,	Beverly,	Navy wireless electrician.	San Juan, P. R.
1906	Louis H. Houghton,	Worcester,	Electrician,	"Missouri."
1906	William R. Dolan,	Worcester,	Chief electrician,	Navy Yard, Charles-town.
1907	Eugene E. Chaney,	Arlington,	Electrician,	"North Dakota."
1907	Louis L. LaMontagne,	Millers Falls,	Electrician,	"Pilgrim."
1910	Howell S. Loundes,	Worcester,	Electrician,	"Georgia."
1911	Harvey M. Thorndike,	Swampscott,	Electrician,	"Nereus."
1911	Patrick S. Coakley,	Malden,	Electrician,	Submarine "C-2."
1911	Walter P. Lynn,	Beverly,	Electrician,	"Birmingham."



## CADETS ADMITTED, GRADUATED, AND HONORABLY DISCHARGED, FROM 1893 TO 1915, INCLUSIVE.

	ADMITTED.			GRADUATED.			HONORABLY DISCHARGED.			Withdrawn, dismissed, dropped.	Number connected with the School.
	Sea- manship Class.	Engineer Class.	Totals.	Sea- manship Class.	Engineer Class.	Totals.	Sea- manship Class.	Engineer Class.	Totals.		
1893,	138	-	138	-	-	-	29	-	29	24	138
1894,	42	21	63	-	-	-	26	17	43	18	156
1895,	33	38	71	19	19	38	6	6	12	6	156
1896,	35	39	74	20	17	37	16	15	31	17	174
1897,	32	41	73	20	21	41	10	10	20	9	165
1898,	42	57	99	15	25	40	12	14	26	23	184
1899,	34	45	79	11	12	23	24	17	41	11	184
1900,	28	50	78	14	36	50	9	12	21	14	186
1901,	34	37	71	11	18	29	8	12	20	16	172
1902,	32	58	90	16	22	38	16	18	34	13	197
1903,	34	32	66	17	14	31	10	15	25	17	178
1904, <sup>1</sup>	-	-	60	16	29	45	5	12	17	31	165
1905, <sup>1</sup>	-	-	65	10	10	20	-	-	9	13	137
1906, <sup>1</sup>	-	-	50	16	19	35	-	-	18	19	145
1907, <sup>1</sup>	-	-	60	10	15	25	-	-	17	26	133
1908, <sup>1</sup>	-	-	45	8	9	17	-	-	9	9	110
1909, <sup>1</sup>	-	-	81	14	22	36	-	-	7	16	156
1910, <sup>1</sup>	-	-	54	6	15	21	-	-	16	15	181
1911, <sup>1</sup>	-	-	69	20	23	43	-	-	7	18	168
1912, <sup>1</sup>	-	-	57	17	16	33	-	-	14	15	157
1913, <sup>1</sup>	-	-	79	21	19	40	-	-	20	8	174
1914, <sup>1</sup>	-	-	65	20	16	36	-	-	22	7	171
1915, <sup>1</sup>	-	-	70	26	19	45	-	-	18	11	176
	-	-	1,657	327	396	723	-	-	476	356	-

<sup>1</sup> Beginning in 1904, the cadets upon entrance are unclassified until their second year.

## MEMBERSHIP OF THE SCHOOL.

*Graduating Class, March, 1915.*

Benhard, Leo A., . . . . .	Boston.
Bonner, William J., . . . . .	East Boston.
Burns, Laurence E., . . . . .	Winthrop.
Ciolkosz, Stanislaus P. J., . . . . .	Taunton.
Damon, Russell C., . . . . .	Quincy.
Davenport, William C., . . . . .	New Bedford.
Fales, Curtis C., . . . . .	Westborough.
Gerecke, Bernhardt, . . . . .	Boston.
Hartwell, Roy C., . . . . .	Boston.
Herron, Wilfred C., . . . . .	Lawrence.
Holmes, John, . . . . .	Campello.
Horan, George T., . . . . .	Nantucket.
Hovgaard, Arthur A., . . . . .	Brookline.
Hurley, Charles H., Jr., . . . . .	Westminster.
Jacobson, Charles P., . . . . .	Everett.
Moore, Ralph S., . . . . .	Newton.
Rhodes, Edward R., . . . . .	Lowell.
Stevens, Clarence E., Jr., . . . . .	West Barnstable.
Stewart, Roy, . . . . .	Everett.
Winquist, Arvid H., . . . . .	Jamaica Plain.

*Graduating Class, October, 1915.*

Bamforth, Charles N., . . . . .	Concord.
Barrett, Sherman J., . . . . .	Lawrence.
Comeau, Martin F., . . . . .	Belmont.
Craven, Harold, . . . . .	Lawrence.
Delano, David P., . . . . .	Orleans.
Durney, Philip J., . . . . .	Gloucester.
Flagg, Osgood R., . . . . .	Southborough.
Ford, Ronald B., . . . . .	Lawrence.
Gaughen, John J., . . . . .	South Boston.
Griffith, Charles E., . . . . .	North Cambridge.
Hammond, Earle D., . . . . .	East Mattapoisett.
Higgins, Arthur F., . . . . .	Lawrence.
Houston, John F., Jr., . . . . .	Jamaica Plain.
Jones, Albert V., . . . . .	Fall River.
Konrad, Leif H., . . . . .	Mattapan.
Linehan, Mark E., . . . . .	North Easton.
Marshall, Leland M., . . . . .	Revere.
Mayo, Herman S., . . . . .	Provincetown.
Nichols, Sidney F., . . . . .	Worcester.
Nimmo, Frank L., . . . . .	Cambridge.

Rice, Warren E., . . . . .	Ashland.
Saunders, Russell L., . . . . .	Boston.
Sheridan, Edward B., . . . . .	Lowell.
Stanley, Edward S., . . . . .	Whitman.
Waite, Frederick T., . . . . .	Winthrop.

*Class to graduate, March, 1916.*

Berglund, C. Edwin, . . . . .	Brockton.
Congdon, Harold R., . . . . .	Boston.
Elder, Randall F., . . . . .	East Boston.
Gorman, Paul, . . . . .	Haverhill.
Harrington, George E., . . . . .	Worcester.
Jakmauh, Peter J., . . . . .	South Boston.
Mahoney, J. Prescott, . . . . .	West Wareham.
Martell, Charles A., . . . . .	Somerville.
Perrin, Frank M., . . . . .	Worcester.
Phillips, Alexander J., . . . . .	Easton.
Reed, Carleton G., . . . . .	Lexington.
Rylander, John A., . . . . .	Springfield.
Simmons, John W., . . . . .	Springfield.
Stevens, Percy C., . . . . .	West Barnstable.
Thomas, William W., . . . . .	Randolph.
Wadleigh, George E., . . . . .	Boston.

*Class to Graduate, October, 1916.*

Bain, Joseph A., . . . . .	Lawrence.
Beauvais, Waldo H., . . . . .	Worcester.
Bianchi, Albert, . . . . .	Worcester.
Browne, Paul H., . . . . .	Roslindale.
Chase, Howard U., . . . . .	Nantucket.
Collins, Clayton W., . . . . .	Waquoit.
Condrey, Joseph P., . . . . .	Lowell.
Crowell, John T., Jr., . . . . .	Gloucester.
Dunphe, Richard H., . . . . .	Brockton.
Erickson, John, . . . . .	New Bedford.
Fickett, Edward, . . . . .	East Boston.
Fletcher, Edwin T., . . . . .	Springfield.
Graham, Austin P., Jr., . . . . .	Everett.
Guba, Henry A., . . . . .	New Bedford.
Gurney, Darrough S., . . . . .	Marion.
Ireland, Harold S., . . . . .	Somerville.
Kenney, Arthur J., . . . . .	Brookline.
Lord, William E., . . . . .	Springfield.
Lufkin, Thomas B., . . . . .	Gloucester.
Millin, Anthony P., . . . . .	Ipswich.

Paine, Byron H., . . . . .	New Bedford.
Pilkington, John E., . . . . .	Mansfield.
Preston, William M., . . . . .	Beverly.
Sanford, Harold W., . . . . .	Springfield.
Standley, Richard A., . . . . .	Beverly.
Stanley, Clifford E., . . . . .	Salem.
Wilcox, Fred E., . . . . .	Indian Orchard.
Woodaman, Lewis E., . . . . .	Worcester.

*Class to Graduate, March, 1917.*

Boyd, Dwight W., . . . . .	Randolph.
Cahill, J. Francis, . . . . .	Salem.
Collins, Augustus R., . . . . .	Waltham.
Crosbie, Percy A., . . . . .	Everett.
Dennen, Charles R., . . . . .	Gloucester.
Foy, John T., . . . . .	Bridgewater.
Francis, Earl S., . . . . .	Athol.
Goldsmith, Frederick, . . . . .	Belmont.
Hopkins, Richard H., . . . . .	West Somerville.
James, Herbert A., . . . . .	Sherborn.
Jensen, Ernest C., . . . . .	Provincetown.
Keating, Leo C., . . . . .	Woburn.
Kingsbury, Luther C., . . . . .	Wellesley Hills.
Moore, Frank M., . . . . .	Forest Hills.
Nichols, Philip G., . . . . .	Peabody.
Roswall, Clifford, . . . . .	Medford.
Sheridan, Robert H., . . . . .	Stoneham.
Upton, John, . . . . .	Upton.

*Class to Graduate, October, 1917.*

Atwood, Franklin B., . . . . .	Nantucket.
Barton, Alan R., . . . . .	Winthrop.
Borden, Alton F., . . . . .	Fall River.
Budd, Rowland, . . . . .	Haydenville.
Childs, George P., . . . . .	Cotuit.
Cleveland, Carrol B., . . . . .	Vineyard Haven.
Cornell, George H., . . . . .	New Bedford.
Freeman, Ivan, . . . . .	East Orleans.
Hewes, George P., . . . . .	Berlin.
Huffman, Charles F., . . . . .	Waltham.
Hurld, Bernard F., . . . . .	Stoneham.
Levine, Harry, . . . . .	Cambridge.
Little, Philip H., . . . . .	Holbrook.
Lyon, Rupert E., . . . . .	Roxbury.
MacLaughlin, Sydney L., . . . . .	Wollaston.

MacWhinnie, Donald, . . . . .	New Bedford.
Massey, Arthur, . . . . .	Lawrence.
McGourty, James A., . . . . .	Worcester.
McLaren, David M., . . . . .	Dedham.
Melcher, Andrew P., . . . . .	Sharon.
Murphy, Arthur D., . . . . .	Beverly.
Noonan, John D., . . . . .	Mansfield.
Phelan, Arthur S., . . . . .	East Lynn.
Plummer, Kenneth H., . . . . .	Revere.
Prescott, Charles E., . . . . .	Boston.
Raby, Ernest E., . . . . .	North Easton.
Roberts, Stanley F., . . . . .	Springfield.
Rowe, A. Henry, . . . . .	Roslindale.
Stevens, Ralph S., . . . . .	Dorchester.
Storey, William W., . . . . .	Stoneham.
Susmann, Herbert W., . . . . .	Dorchester.
Swain, Harold S., . . . . .	Cambridge.
Thresher, Russell W., . . . . .	Southbridge.
Wilson, Bradford S., . . . . .	Quincy.
Wyatt, Ernest V., . . . . .	Boston.

#### APPROPRIATIONS.

The appropriations for the school for the fiscal year 1915, from Dec. 1, 1914, to Nov. 30, 1915, are here accounted for as follows: —

##### *Current Expenses.*

Appropriation, . . . . .	\$62,000 00
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##### Expended: —

Pay roll, . . . . .	\$31,822 85
Provisions, . . . . .	16,249 14
Seamanship department, . . . . .	4,272 19
Engineering department, . . . . .	5,869 60
Instruction, . . . . .	725 69
Miscellaneous, . . . . .	3,079 48

Total amount expended, . . . . .	\$62,018 95
Less balance allowed from 1914, . . . . .	20 00

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61,998 95

Balance unexpended, . . . . .	\$1 05
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*Office Expenses.*

Appropriation, . . . . .		\$6,000 00
Expended: —		
Salaries, . . . . .	\$3,158 00	
Rent of office and janitor's service, . . . . .	1,114 00	
Advertising, . . . . .	354 50	
Printing, . . . . .	575 37	
Stationery and postage, . . . . .	355 15	
Telephone and telegrams, . . . . .	195 40	
Commissioners' expenses, . . . . .	79 74	
Miscellaneous, . . . . .	170 80	
	<hr/>	
Total amount expended, . . . . .	\$6,002 96	
Less amount allowed by Retirement Association, . . . . .	5 31	
	<hr/>	5,997 65
		<hr/>
Balance unexpended, . . . . .		\$2 35

Respectfully submitted,

JOHN F. MERRY, *Chairman*,  
 REAR ADMIRAL, U. S. N. (RETIRED).  
 WILLIAM E. MCKAY.  
 CLARENCE E. PERKINS.

BOSTON, Jan. 1, 1916.

## FEDERAL AND STATE LEGISLATION.

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### AUTHORITY OF THE UNITED STATES.

H. R. 24145. APPROVED MARCH 4, 1911.

(Original Act passed June 20, 1874.)

#### AN ACT FOR THE ESTABLISHMENT OF MARINE SCHOOLS, AND FOR OTHER PURPOSES.

That the Secretary of the Navy, to promote nautical education, is hereby authorized and empowered to furnish, upon the application in writing of the governor of a State, a suitable vessel of the navy, with all her apparel, charts, books, and instruments of navigation, provided the same can be spared without detriment to the naval service, to be used for the benefit of any nautical school, or school or college having a nautical branch, established at each of the following ports of the United States: Boston, Philadelphia, New York, Seattle, San Francisco, Baltimore, Detroit, Saginaw, Michigan, Norfolk, and Corpus Christi, upon the condition that there shall be maintained at such port a school or branch of a school for the instruction of youths in navigation, steamship-marine engineering, and all matters pertaining to the proper construction, equipment, and sailing of vessels or any particular branch thereof.

SECTION 2. That a sum not exceeding the amount annually appropriated by any State or municipality for the purpose of maintaining such a marine school or schools or the nautical branch thereof is hereby authorized to be appropriated for the purpose of aiding in the maintenance and support of such school or schools: *provided, however*, that appropriations shall be made for one school in any port heretofore named in section one and that the appropriation for any one year shall not exceed twenty-five thousand dollars for any one school.

SECTION 3. That the President of the United States is hereby authorized, when in his opinion the same can be done without detriment to the public service, to detail proper officers of the navy as superintendents of or instructors in such schools: *provided*, that if any such school shall be discontinued, or the good



of the naval service shall require, such vessel shall be immediately restored to the Secretary of the Navy and the officers so detailed recalled: *and provided further*, that no person shall be sentenced to or received at such schools as a punishment or commutation of punishment for crime.

SECTION 4. That all laws and parts of laws in conflict herewith are hereby repealed.

## AUTHORITY OF THE STATE OF MASSACHUSETTS.

CHAPTER 45, REVISED LAWS, AS AMENDED BY CHAPTER 171, ACTS OF 1903,  
AND CHAPTER 224, ACTS OF 1913.

### THE NAUTICAL SCHOOL.

SECTION 1. There shall be a board of commissioners of the Massachusetts nautical school consisting of three citizens of the commonwealth, one of whom shall annually, before the first day of July, be appointed by the governor, with the advice and consent of the council, for a term of three years from said first day of July.

SECTION 2. Said commissioners shall serve without compensation, but they shall be reimbursed by the commonwealth for all expenses actually incurred by them in the performance of their official duties.

SECTION 3. They shall provide and maintain a nautical school for the instruction and training of pupils in the science and practice of navigation, shall provide accommodations for the school on board a proper vessel, purchase and provide books, stationery, apparatus and supplies needed in the work of the school, appoint and remove instructors and other necessary employees, determine their number and compensation, fix the terms and conditions upon which pupils shall be received and instructed in the school and be discharged or dismissed therefrom, establish all regulations necessary for its proper management and shall from time to time provide for cruises in or from the harbor of Boston.

SECTION 4. They may receive from the United States government, and use for the accommodation of the school, such vessels as the secretary of the navy may detail.

SECTION 5. They may annually expend such sum as the general court may from year to year appropriate, which shall be paid by the commonwealth; and they shall annually submit an estimate of the expense required in making cruises in or from the



harbor of Boston, and the amount of said estimate, after approval by the governor and council and subject to the provisions of chapter six, shall be advanced to the commanding officer of the vessel detailed therefor, who shall give a bond in the sum of ten thousand dollars, with sureties approved by the governor and council, for its proper disbursement. Said advance shall not exceed ten thousand dollars for six months, and shall be accounted for by properly approved vouchers within thirty days after the termination of said cruises.

SECTION 6. They shall annually, in January, report to the general court a detailed statement of all moneys appropriated and expended during the preceding year for the nautical school, stating the results of the work during such year and making any necessary recommendations.

